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100	Application Number	10/691,942
TRANSMITTAL	Filing Date	October 22, 2003
FORM	First Named Inventor	CHISHTI, MUHAMMAD
(Long used for all correspondence after initial filin	ng) Art Unit	3732
TADEME	Examiner Name	WILSON, JOHN J.
Total Number of Pages in This Submission	13 Attorney Docket Number	018563-005820US
	ENCLOSURES (Check all tha	t anniel
Fee Transmittal Form Fee Attached Amendment/Reply After Final Affidavits/declaration(s) Extension of Time Request Express Abandonment Request Supplemental Information Disclosure Statement Certified Copy of Priority Document(s) Response to Missing Parts/ Incomplete Application Response to Missing Parts under 37 CFR 1.52 or 1.53	Drawing(s) Licensing-related Papers Petition Petition to Convert to a Provisional Application Power of Attorney, Revocation Change of Correspondence Add Terminal Disclaimer Request for Refund CD, Number of CD(s) (Reference Copies)	After Allowance Communication to Technology Center (TC) Appeal Communication to Board of Appeals and Interferences Appeal Communication to TC (Appeal Notice, Brief, Reply Brief) Proprietary Information
	TURE OF APPLICANT, ATTORN	NEY, OR AGENT
Firm Townsend and Towns or Individual name James M. Heslin		g. No. 29,541
Signature		
Date September 7, 200	4	
C	ERTIFICATE OF TRANSMISSIO	N/MAILING
I hereby certify that this correspondence is be envelope addressed to: Commissioner for Pat		al Service with sufficient postage as first class mail in an 3-1450 on the date shown below.
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Client Reference No.: AT00112.2

Commissioner for Patents P.O. Box 1450

Alexandria, VA 22313-1450

TOWNSEND and TOWNSEND and CREW LLP

Tiffany Wu

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

MUHAMMAD CHISHTI et al.

Application No.: 10/691,942

Filed: October 22, 2003

For: DIGITALLY MODELING THE **DEFORMATION OF GINGIVAL** TISSUE DURING ORTHODONTIC

TREATMENT

Examiner: WILSON, JOHN J.

Art Unit: 3732

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT UNDER 37

CFR §1.97 and §1.98

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

The references cited on attached form PTO/SB/08A and PTO/SB/08B are being called to the attention of the Examiner. Electronic copies of the references are enclosed on 1 CD-ROM disk.

It is respectfully requested that the cited references be expressly considered during the prosecution of this application, and the references be made of record therein and appear among the "references cited" on any patent to issue therefrom.

The references cited in the accompanying PTO/SB/08A and PTO/SB/08B, were indentified by either or both parties in litigation between Align Technology, Inc., assignee of the MUHAMMAD CHISHTI et al.

Application No.: 10/691,942

Page 2

above-referenced patent application, and Ormco Corporation in case no. SACV 03-16-GLT

(ANX) before the U.S. District Court, Central District of California, Southern Division, as being

potentially relevant to the design, fabrication, and/or use of removable orthodontic appliances

and/or to the use of computers or other automatic means for calculating final or intermediate

tooth positions for orthodontic treatment.

As provided for by 37 CFR 1.97(g) and (h), no inference should be made that the

information and references cited are prior art merely because they are in this statement and no

representation is being made that a search has been conducted or that this statement encompasses

all the possible relevant information.

This IDS is being filed before the mailing date of the final Office Action or

Notice of Allowance.

Please charge the IDS fee of \$180 to Deposit Account No. 20-1430. Please

deduct any additional fees from, or credit any overpayment to, the above-noted Deposit Account.

Respectfully submitted,

James/M. Heslin Reg. No. 29,541

TOWNSEND and TOWNSEND and CREW LLP

Two Embarcadero Center, Eighth Floor

San Francisco, California 94111-3834

Tel: 650-326-2400 Fax: 650-326-2422

JMH:tfw

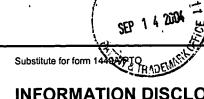
60301555 v1

Substitute for form NAPTO Complete if Known 10/691,942 **Application Number** INFORMATION DISCLOSURE Filing Date October 22, 2003 STATEMENT BY APPLICANT First Named Inventor CHISHTI, MUHAMMAD Art Unit 3732 (use as many sheets as necessary) **Examiner Name** WILSON, JOHN J. Sheet 10 Attorney Docket Number 018563-005820US

	ļ	Document Number				
Examiner Initials*	Cite No. ¹	Number Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	
	AA	2,467,432	04-19-1949	Kesling		
	AB	3,660,900	05-09-1972	Andrews		
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	1 55	3,107,300	102-02-1333	Eloman ot al.		

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet	2	of	10	

	Complete if Known
Application Number	10/691,942
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First Named Inventor	CHISHTI, MUHAMMAD
Art Unit	3732
Examiner Name	WILSON, JOHN J.
Attorney Docket Number	018563-005820US

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Examiner Initials*	Cite No.1	Document Number Number Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	
	BP	5,186,623	02-16-1993	Breads et al.		
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Examiner Cite No.1	For	eign Patent Doo	ument	5 - 1 - 1 - 5 - 4	Name of Patentee or	Pages, Columns, Lines, Where Relevant				
		Country Code ³	Number ⁴	Kind Code ⁵ (if known)_	Publication Date MM-DD-YYYY	Applicant of Cited Document	Passages or Relevant Figures Appear	. Тв		
	СТ	EP	091,876	A1	10-19-1983	Duret				
	cu	EP	299,490	A2	01-18-1989	Steinbichler et al.				
	cv	EP	376,873	A2	07-04-1990	Shafir				
	cw	EP	490,848	B1	06-17-1992	Andersson et al.				
	СХ	EP	541,500	A1	06-12-1998	Andersson et al.				

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Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible.

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Substitute for form 1449A/PTO Complete if Known 10/691,942 **Application Number** INFORMATION DISCLOSURE October 22, 2003 Filing Date STATEMENT BY APPLICANT CHISHTI, MUHAMMAD First Named Inventor Art Unit 3732 (use as many sheets as necessary) **Examiner Name** WILSON, JOHN J. 018563-005820US Sheet Attorney Docket Number

				FOREIGN PA	TENT DOCUME	ENTS		
Examiner Initials*	Cite No.1	For	eign Patent Docu Number ⁴	ument Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T [®]
	CY	EP	731,673	B1	09-18-1998	Andersson et al.		
	CZ	EP	774,933	B1	05-28-1997	Oden et al.		
	· DA	FR	2,652,256	A1	03-29-1991	Jourda		
	DB	FR	2,369,828	A1	06-02-1978	Suyehiro		
	DC	wo	90/08,512	A1	08-09-1990	Lemcren		
	DD	wo	91/04,713	A1	04-18-1991	Jourda et al.		
	DE	wo	94/10,935	A1	05-26-1994	Andreiko et al.		
	DF	wo	98/44,865	A1	10-15-1998	Andersson		
	DG	wo	98/58,596	A1	12-30-1998	Chishti et al.		

Examiner Signature	Date Considered	

Substitute	Substitute for form 1449B/PTO			Complete if Known		
INIEQ!		N DIC	CI OCUDE	Application Number	10/691,942	
INFORMATION DISCLOSURE				Filing Date	October 22, 2003	
STAT	STATEMENT BY APPLICANT			First Named Inventor	CHISHTI, MUHAMMAD	
				Art Unit	3732	
(4	use as many :	sheets as	necessary)	Examiner Name	WILSON, JOHN J.	
Sheet	4	of	10	Attorney Docket Number	018563-005820US	

		Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item	
Examiner nitials *	Cite No. ¹	(book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	Т
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· -	DJ	ALTSCHULER et al, "Measuring Surfaces Space-Coded by a Laser-Projected Dot Matrix," SPIE Imaging Applications for Automated Industrial Inspection and Assembly, vol. 182 (1979), p. 187-191.	
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	DW	BIGGERSTAFF et al., "Computerized analysis of occlusion in the postcanine dentition," American Journal of Orthodontics, Vol. 61, No. 3 (Mar. 1972), pp. 245-254.	

		,
Examiner	Date	
Signature	Considered	

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Substitute	for form 1449B/PTC)		Complete if Known		
INITO	DALATION	DIC	CLOCUDE	Application Number	10/691,942	
	=		CLOSURE	Filing Date	October 22, 2003	
STAT	EMENT B	Y A	PPLICANT	First Named Inventor	CHISHTI, MUHAMMAD	
				Art Unit	3732	
(use as many sheets as necessary)				Examiner Name	WILSON, JOHN J.	
Sheet	5	of	10	Attorney Docket Number	018563-005820US	

	T	NON PATENT LITERATI Include name of the author (in CAPITAL LETTE			_		
Examiner Initials *	Cite No. ¹	(book, magazine, journal, serial, symposium, publisher, city and/	catalog, etc.), dat /or country where	e, page(s), volume-issue number(s), published.	Т		
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	EM	DCS Dental AG, "The CAD/CAM DCS Titan S Production AG, Jan. 1992, pp. 1-7.		ction of Crowns/Bridges" DSC			
Examiner Signature			Date Considered				

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Substitute for form 1449B/PTO		Complete if Known		
INFORMATION DISCUOSUD	_ Application Number	10/691,942		
INFORMATION DISCLOSUR	riing Date	October 22, 2003		
STATEMENT BY APPLICAN	First Named Inventor	CHISHTI, MUHAMMAD		
	Art Unit	3732		
(use as many sheets as necessary)	Examiner Name	WILSON, JOHN J.		
Sheet 6 of 10	Attorney Docket Number	018563-005820US		

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials *	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T 2
	EN	DEFRANCO et al., "Three-Dimensional Large Displacement Analysis of Orthodontic Appliances," J. Biomechanics, Vol. 9 (1976), pp. 793-801.	
	EO	Dental Institute University of Zurich Switzerland, Program for International Symposium on Computer Restorations: State of the Art of the CEREC-Method, May 1991, 3 pages total.	
	EP	DenTrac Corporation, Dentrac document, pp. 4-13.	
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	ER	DURET et al., "CAD/CAM imaging in dentistry," Current Opinion in Dentistry, Vol. 1 (1991), pp. 150-154.	
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	EV	ELSASSER, "Some observations on the history and uses of the Kesling positioner" Am. J. Orthod., 36:368-374, 1950.	
	EW	FABER et al., "Computerized interactive orthodontic treatment planning," <i>Am. J. Orthod.</i> , Vol. 73, No. 1 (Jan. 1978), pp. 36-46.	
•	EX	FELTON et al. "A computerized analysis of the shape and stability of mandibular arch form," Am. Journal of Orthodontics and Dentofacial Orthopedics, Vol. 92, No. 6 (Dec. 1987), pp. 478-483.	
	EY	FRIEDE et al., "Accuracy of Cephalometric Prediction in Orthognathic Surgery, "Abstract of Papers, Journal of Dental Research, Vol. 70 (1987), pp. 754-760.	
•	EZ	GIM-ALLDENT Deutschland, "Das DUX System: Die Technik" 4 pages total.	
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	FC	HEAVEN et al., "Computer-based Image Analysis of Artificial Root Surface Caries," "Automated Identification of Landmarks in Cephalometric Radiographs," Abstracts of Papers, <i>Journal of Dental Research</i> , Vol. 67, March 9-13, 1988, 2 pages total.	

Examiner	Date	'
Signature	Considered	

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INIEGE	SA A TION	DIC	CLOCUDE	Application Number	10/691,942	
			CLOSURE	Filing Date	October 22, 2003	
STAT	EMENT B	ΥA	PPLICANT	First Named Inventor	CHISHTI, MUHAMMAD	
				Art Unit	3732	
(use as many sheets as necessary)				· Examiner Name	WILSON, JOHN J.	
Sheet	7	of	10	Attorney Docket Number	018563-005820US	

		NON PATENT LITERATURE DOCUMENTS	
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	FD	HOFFMANN et al., "Role of Cephalometry for Planning of Jaw Orthopedics and Jaw Surgery Procedures," (Article Summary in English, article in German), <i>Informationen</i> , (March 1991), pp. 375-396.	
	FE	HUCKINS, "CAD-CAM Generated Mandibular Model Prototype from MRI Data," AAOMS 1999, p. 96.	
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	FG	JCO Interviews, "Craig Andreiko , DDS, MS on the Elan and Orthos Systems", JCO, (Aug. 1994), pp. 459-468.	<u> </u>
	FH	JCO Interviews, "Dr. Homer W. Phillips on Computers in Orthodontic Practice, Part 2," JCO, (Dec. 1983), pp. 819-831.	
	FI	JERROLD, "The problem, electronic data transmission and the law," <i>AJO-DO</i> , (Apr. 1988), pp. 478-479.	
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	FK	KAMADA et al., "Case reports on tooth positioners using LTV vinyl silicone rubber" J. Nihon University School of Dentistry, 26(1):11-29, 1984.	
	FL	KAMADA et al., "Construction of tooth positioners with LTV vinyl silicone rubber and some case reports" J. Nihon University School of Dentistry, 24(1):1-27, 1982.	
-	FM	KANAZAWA et al., "Three-Dimensional Measurements of the Occlusal Surfaces of Upper Molars in a Dutch Population," <i>J. Dent Res.</i> , Vol. 63, No. 11 (Nov. 1984), pp. 1298-1301.	
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	FO	KESLING, "The philosophy of the tooth positioning appliance" Am. J. Orthod. Oral. Surg., 31(6):297-304, 1945.	
	FP	KLEEMANN et al., "The speed positioner" J. Clin. Orthod., 30:673-680, 1996.	
-	FQ	KURODA et al., "Three-dimensional dental cast analyzing system using laser scanning" Am. J. Orthod. Dentofac. Orthop., 110:365-369, 1996.	
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Signature	Considered	

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1 Applicant's unique citation designation number (optional). Applicant is to place a check mark here if English language Translation is attached.

Substitute	for form 1449E	B/PTO		Complete if Known		
	DALATI	NI DIO	OL OCUPE	Application Number	10/691,942	
			CLOSURE	Filing Date	October 22, 2003	
STAT	STATEMENT BY APPLICANT			First Named Inventor	CHISHTI, MUHAMMAD	
				Art Unit	3732	
(6	(use as many sheets as necessary)			Examiner Name	WILSON, JOHN J.	
Sheet	8	of	10	Attorney Docket Number	018563-005820US	

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials *	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T²
	FT	MCNAMARA et al., Orthodontic and Orthopedic Treatment in the Mixed Dentition, Needham Press, January 1993. pp.347-353.	
	FU	MCNAMARA et al., "Invisible Retainers", J. Clinical Orthodontics, (August 1985) pp. 570-578.	
	FV	MOERMANN et al., "Computer Machined Adhesive Porcelain Inlays: Margin Adaptation after Fatigue Stress," IADR Abstract 339, <i>Journal of Dental Research</i> , vol. 66(a) (1987), p. 339.	
	FW	MÖRMANN et al., "Marginal Adaptation von adhasiven Porzellaninlays in vitro, "Schwizerische Monatsshrift fur Zahnmedizin, Vol. 85 (1985), p. 1118-1129.	
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	GC	PINKHAM, "Inventor's CAD/CAM may transform dentistry," Dentist, Sept. 1990, 3 pages total.	
	GD	PONITZ, Invisible Retainers, 59 Am. J. Orthodontics, March 1971, pp. 266-272.	
	GE	Procera Research Projects, PROCERA Research Projects 1993 — Abstract Collection, 1993, pp. 3-28.	
	GF	REKOW, "A Review of the Developments in Dental CAD/CAM Systems,"(contains references to Japanese efforts and content of the papers of particular interest to the clinician are indicated with a one-line summary of their content in the bibliography), Dental Clinics: <i>Prosthodontics and Endodontics</i> , pp.25-33, 1992.	
	GG	REKOW, "CAD/CAM in Dentistry: A Historical Perspective and View of the Future," <i>Journal</i> , Vol. 58 No. 4, (April 1992), pp. 283, 287-288.	
	GH	REKOW, "Computer-Aided Design and Manufacturing in Dentistry: A Review of the State of the Art," <i>The Journal of Prosthetic Dentistry</i> , Vol. 58, No. 4 (Oct. 1987), pp. 512-516.	
	Gi	REKOW, "Dental CAD-CAM Systems: What is the State of the Art?" Journal of the American Dental Assoc., Vol. 122 (1991), pp. 43-48.	

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	Signature	Considered	

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Substitute f	or form 1449B/PTC)		Complete if Known		
I INIEOT		DIC	CLOCUDE	Application Number	10/691,942	
	=		CLOSURE	Filing Date	October 22, 2003	
STAI	EMEN! B	Y AI	PPLICANT	First Named Inventor	CHISHTI, MUHAMMAD	
				Art Unit	3732	
(use as many sheets as necessary)			necessary)	Examiner Name	WILSON, JOHN J.	
Sheet	9	of	10	Attorney Docket Number	018563-005820US	

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_	GJ	REKOW, "Feasibility of an Automated System for Production of "Dental Restorations," PhD Thesis, Univ. of Minnesota, Nov. 1988, 244 pages total.	
	GK	RICHMOND et al., Research Reports, "The development of a 3D Cast Analysis System," British Journal of Orthodontics, pp. 53-54.	
	GL	RICHMOND, "Recording the dental cast in three dimensions," Am. J. Orthod. Dentofac. Orthop., Vol. 92, No. 3, (Sept. 1987), pp.199-206.	
	GM	RUDGE, "Dental arch analysis: arch form, A review of the literature," European Journal of Orthodontics, Vol. 3, No. 4 (1981), pp.279-284.	
	GN	SAKUDA et al., "Integrated information-processing system in clinical orthodontics: An approach with use of a computer network system," <i>Am. J. Orthod. Dentofac. Orthop.</i> Vol. 101 No. 3 (March 1992), pp. 210-220.	
	GO	SCHELLHAS et al., "Three-Dimensional Computer Tomography in Maxillofacial Surgical Planning," Arch Otolamgol Head Neck Surg. Vol. 114 (April 1988), pp. 438-442.	
••	GP	SEGÙ et al., "Computer-aided Cefalometry and New Mechanics in Orthodontics" (Article Summary in English, article in German), Fortschr. Kieferorthop. 44, 370-376 (Nr. 5), 1983	
	GQ	SHILLIDAY, "Minimizing finishing problems with the mini-positioner" Am. J. Orthod. 59:596-599, 1971	
	GR	Siemens, "CEREC - Computer-Reconstruction, "High Tech in der Zahnmedizin, 14 page total.	
	GS	Sirona Dental Systems GmbH, CEREC 3D, Manuel utilisateur, Version 2.0X (in French), 2003, 114 pages total.	
	GT	STOLL et al., "Computer-aided Technologies in Dentistry" (Article Summary in English, article in German), Dtsch Zahnärztl Z 45, 314-322, 1990.	
_	GU	U.S. Department of Commerce, National Technical Information Service, "Automated Crown Replication Using Solid Photography SM," Solid Photography Inc. Melville NY, October 1977, 21 pages total.	
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	GW	U.S. Provisional Patent Application No. 60/050342, filed on June 20, 1997, 41 pages total.	
	GX	VAN DER LINDEN et al., Three-Dimensional Analysis of Dental Casts by Means of the Optocom," J Dent Res, July-August 1972, p. 1101.	
	GY	VAN DER LINDEN, "A New Method to Determine Tooth Positions and Dental Arch Dimensions," July-August 1972, p. 1104.	

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Substitute for form 1449B/PTO Complete if Known Application Number 10/691,942 INFORMATION DISCLOSURE Filing Date October 22, 2003 STATEMENT BY APPLICANT CHISHTI, MUHAMMAD First Named Inventor Art Unit 3732 (use as many sheets as necessary) WILSON, JOHN J. Examiner Name 10 Sheet Attorney Docket Number 018563-005820US

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	GZ	VAN DER ZEL, "Ceramic-fused-to-metal Restorations with a New CAD/CAM System," Quintessence International, vol. 24(11) (1993), pp. 769-778.			
	НА	VÁRADY et al., "Reverse Engineering of Geometric Models - An Introduction," May 13, 1996, pp. 1-28.			
	НВ	WARUNEK et al., "Clinical use of silicone elastomer appliances" JCO, MH (10):694-700, 1989.			
	нс	WARUNEK et al., "Physical and mechanical properties of elastomers in orthodontic positioners" <i>Am. J. Orthod. Dentofac. Orthop.</i> , 95:388-400, 1989.			
	HD	WELLS, "Application of the positioner appliance in orthodontic treatment" <i>Am. J. Orthodont.</i> , 58:351-366, 1970.			
	HE	WILLIAMS, "Dentistry and CAD/CAM: Another French Revolution, "Journal of Dental Practice Admin., Jan./March 1987, pp. 2-5.			
	HF	WILLIAMS, "The Switzerland and Minnesota Developments in CAD/CAM," Journal of Dental Practice Admin., pp. 50-55, April/June 1987.			
	HG	WISHAN, "New Advances in Personal Computer Applications for Cephalometric Analysis, Growth Prediction, Surgical Treatment Planning and Imaging Processing, "Symposium: Computerized Facial Imaging in Oral and Maxilofacial Surgery, AAOMS, Sept. 13, 1990, p. 5.			
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	н	YAMAMOTO et al., "Optical measurement of dental cast profile and application to analysis of three-dimensional tooth movement in orthodontics," <i>Frontiers in Med. and Biol. Eng'g</i> , Vol. 1, No. 2 (1988), pp. 119-130.			

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